



1
00:00:54,869 --> 00:00:24,550
if your spirit is rolling around

2
00:00:54,879 --> 00:01:22,310
till

3
00:01:29,350 --> 00:01:25,990
and good morning endeavor mirror

4
00:01:32,469 --> 00:01:30,789
all right chris it's kind of crowded

5
00:01:34,550 --> 00:01:32,479
looking in the base block of the beer

6
00:01:36,310 --> 00:01:34,560
space station we just looked at the crew

7
00:01:37,990 --> 00:01:36,320
as we get ready to begin this interview

8
00:01:39,670 --> 00:01:38,000
let's start with the shuttle commander

9
00:01:41,670 --> 00:01:39,680
terry wilkin terry you've had a couple

10
00:01:43,109 --> 00:01:41,680
days to get to me or a few days docked

11
00:01:44,630 --> 00:01:43,119
you had a lot of stuff you needed to

12
00:01:46,630 --> 00:01:44,640
move back and forth tell me about the

13
00:01:48,950 --> 00:01:46,640

progress of that and tell me

14

00:01:51,030 --> 00:01:48,960

specifically about this huge air

15

00:01:52,870 --> 00:01:51,040

conditioning unit that was added to your

16

00:01:55,190 --> 00:01:52,880

cargo at the last minute have you moved

17

00:02:00,149 --> 00:01:55,200

it yet and uh was it a big hassle to get

18

00:02:04,069 --> 00:02:01,910

actually we've been uh we have been very

19

00:02:06,230 --> 00:02:04,079

very busy and uh frankly we're ahead of

20

00:02:07,510 --> 00:02:06,240

schedule it did take a couple days to

21

00:02:10,550 --> 00:02:07,520

get here you know to get things

22

00:02:12,630 --> 00:02:10,560

organized and the docking went extremely

23

00:02:14,150 --> 00:02:12,640

well from our point of view and uh

24

00:02:15,830 --> 00:02:14,160

frankly jim reilly is in charge of our

25

00:02:17,110 --> 00:02:15,840

transfer and he's got us ahead of

26

00:02:18,550 --> 00:02:17,120

schedule and i'll let him tell you about

27

00:02:19,910 --> 00:02:18,560

the air conditioning unit

28

00:02:21,030 --> 00:02:19,920

okay

29

00:02:22,790 --> 00:02:21,040

that's good

30

00:02:25,750 --> 00:02:22,800

as you can see a happy looking crew go

31

00:02:29,270 --> 00:02:27,350

yeah john everything's been going really

32

00:02:31,110 --> 00:02:29,280

smooth with the joint efforts between

33

00:02:32,630 --> 00:02:31,120

our two crews we've managed to transfer

34

00:02:34,229 --> 00:02:32,640

just about everything we've got over a

35

00:02:35,750 --> 00:02:34,239

thousand items we've already transferred

36

00:02:37,910 --> 00:02:35,760

and we're just cleaning up the last ones

37

00:02:39,589 --> 00:02:37,920

right now the air conditioning unit

38

00:02:41,509 --> 00:02:39,599

unfortunately fit through the hatch with

39

00:02:42,869 --> 00:02:41,519

just a little bit of elbow grease but it

40

00:02:45,430 --> 00:02:42,879

works fine

41

00:02:47,110 --> 00:02:45,440

good i have a question for you and for

42

00:02:49,990 --> 00:02:47,120

michael and

43

00:02:51,350 --> 00:02:50,000

and for pilot joe edwards uh you'll

44

00:02:53,110 --> 00:02:51,360

remember when we talked in houston a

45

00:02:56,790 --> 00:02:53,120

couple weeks ago i asked you to try to

46

00:02:59,110 --> 00:02:56,800

uh put your your brain on uh real uh

47

00:03:01,190 --> 00:02:59,120

intense record for the experience of

48

00:03:02,710 --> 00:03:01,200

going up into space for the first time

49

00:03:06,869 --> 00:03:02,720

so when we talked today you could tell

50

00:03:10,149 --> 00:03:08,550

all right john i remember your question

51
00:03:12,149 --> 00:03:10,159
and i did my best to try to remember my

52
00:03:14,149 --> 00:03:12,159
thoughts on accent but i tell you what

53
00:03:16,229 --> 00:03:14,159
during the first few moments my thoughts

54
00:03:17,350 --> 00:03:16,239
were kind of overtaken by my senses as i

55
00:03:19,750 --> 00:03:17,360
was kind of

56
00:03:21,270 --> 00:03:19,760
inundated by the vibration and the light

57
00:03:23,430 --> 00:03:21,280
show and the sound and those are the

58
00:03:25,430 --> 00:03:23,440
things that i remember most but uh right

59
00:03:27,110 --> 00:03:25,440
after that the uh training took over and

60
00:03:28,949 --> 00:03:27,120
i was able to catch back up with the

61
00:03:30,789 --> 00:03:28,959
shuttle and pretty much uh monitor the

62
00:03:32,309 --> 00:03:30,799
systems just like we were trained but

63
00:03:33,430 --> 00:03:32,319

although it was a pretty fantastic

64

00:03:35,990 --> 00:03:33,440

adventure

65

00:03:37,430 --> 00:03:36,000

it looked great from the ground

66

00:03:45,110 --> 00:03:37,440

joe and jimmy you want to talk to me too

67

00:03:48,789 --> 00:03:47,110

yeah john it was uh it was pretty

68

00:03:50,710 --> 00:03:48,799

impressive from the inside it was so

69

00:03:53,350 --> 00:03:50,720

amazing how calm i felt all the way up

70

00:03:54,789 --> 00:03:53,360

to the to the final uh final one or two

71

00:03:56,390 --> 00:03:54,799

seconds and then as soon as things

72

00:03:58,070 --> 00:03:56,400

started rumbling i was kind of like mike

73

00:04:00,149 --> 00:03:58,080

it was kind of like wow

74

00:04:01,670 --> 00:04:00,159

this is it and then uh then it was

75

00:04:03,110 --> 00:04:01,680

pretty impressive all the way to orbit

76

00:04:04,789 --> 00:04:03,120

and just watching the light over the

77

00:04:06,550 --> 00:04:04,799

overhead was was something that really

78

00:04:07,910 --> 00:04:06,560

uh really impressed me

79

00:04:10,309 --> 00:04:07,920

my first thoughts when everything was

80

00:04:12,149 --> 00:04:10,319

going on was uh thinking about my family

81

00:04:13,750 --> 00:04:12,159

and and the light show they were getting

82

00:04:15,589 --> 00:04:13,760

which i thought was pretty

83

00:04:17,110 --> 00:04:15,599

pretty impressive inside i imagine they

84

00:04:18,870 --> 00:04:17,120

thought it was pretty impressive outside

85

00:04:19,909 --> 00:04:18,880

too

86

00:04:21,430 --> 00:04:19,919

i'll tell you why you passed the

87

00:04:23,110 --> 00:04:21,440

microphone our viewers were able to see

88

00:04:25,110 --> 00:04:23,120

the launch from a camera on top of the

89

00:04:26,790 --> 00:04:25,120

vehicle assembly building which is up

90

00:04:28,870 --> 00:04:26,800

above where you guys were and so we

91

00:04:31,990 --> 00:04:28,880

watched the entire atlantic ocean light

92

00:04:34,070 --> 00:04:32,000

up uh as uh as you guys zoomed past and

93

00:04:36,150 --> 00:04:34,080

it was loud and uh i imagined it was

94

00:04:39,030 --> 00:04:36,160

more rumbly and rattly for you how about

95

00:04:42,150 --> 00:04:40,310

well i don't know that i could add a

96

00:04:44,469 --> 00:04:42,160

whole lot to the sensations that mike

97

00:04:46,310 --> 00:04:44,479

and jim talked about but he has a navy

98

00:04:49,110 --> 00:04:46,320

fighter pilot i'm flying at an altitude

99

00:04:50,629 --> 00:04:49,120

of 207 miles or so and i've gone 25

100

00:04:52,469 --> 00:04:50,639

times the speed of sound now so i'm a

101
00:04:54,150 --> 00:04:52,479
pretty happy camper

102
00:04:56,710 --> 00:04:54,160
i'll bet pass the mic down to andy

103
00:04:59,350 --> 00:04:56,720
thomas andy for the past couple of days

104
00:05:01,430 --> 00:04:59,360
there has been some concern about the uh

105
00:05:03,270 --> 00:05:01,440
the spacesuit you'd have to wear to come

106
00:05:05,590 --> 00:05:03,280
home from beer in an emergency it didn't

107
00:05:08,070 --> 00:05:05,600
fit but you fixed it have there been any

108
00:05:09,590 --> 00:05:08,080
other surprises like that since you got

109
00:05:13,430 --> 00:05:09,600
to mirror things that you just did not

110
00:05:17,430 --> 00:05:15,510
uh regarding the spacesuit we did fix it

111
00:05:19,590 --> 00:05:17,440
the suit has a lot of adjustment in it

112
00:05:21,670 --> 00:05:19,600
and we were able to adjust it out and i

113
00:05:23,189 --> 00:05:21,680

was able to put it on and take it off

114

00:05:24,870 --> 00:05:23,199

satisfactorily and it was a very nice

115

00:05:26,790 --> 00:05:24,880

fit fit like a glove

116

00:05:27,830 --> 00:05:26,800

uh the only other surprise i've had is

117

00:05:29,749 --> 00:05:27,840

that

118

00:05:31,510 --> 00:05:29,759

there's an awful lot of stuff in there i

119

00:05:33,430 --> 00:05:31,520

mean it's like

120

00:05:35,990 --> 00:05:33,440

we've got stuff stowed in every nook and

121

00:05:37,830 --> 00:05:36,000

cranny on this vehicle and there's very

122

00:05:39,990 --> 00:05:37,840

little storage space and that's the

123

00:05:42,710 --> 00:05:40,000

biggest surprise that i've i've come

124

00:05:44,710 --> 00:05:42,720

across is just uh how restrictive we are

125

00:05:46,710 --> 00:05:44,720

on free storage space

126

00:05:49,590 --> 00:05:46,720

yeah andy before you pass the microphone

127

00:05:51,909 --> 00:05:49,600

off a senior russian space official said

128

00:05:53,749 --> 00:05:51,919

yesterday or the day before that the

129

00:05:56,230 --> 00:05:53,759

suit problem you pointed out was not

130

00:05:57,909 --> 00:05:56,240

really a problem at all and i am a i

131

00:06:00,390 --> 00:05:57,919

don't speak russian as well as you do as

132

00:06:01,990 --> 00:06:00,400

you know but he expressed concern about

133

00:06:04,550 --> 00:06:02,000

your willingness to actually complete

134

00:06:05,990 --> 00:06:04,560

four months on mir at least he said that

135

00:06:07,830 --> 00:06:06,000

talking about the suit was sort of

136

00:06:10,469 --> 00:06:07,840

capricious on your part and he was

137

00:06:12,309 --> 00:06:10,479

concerned that this capriciousness might

138

00:06:14,150 --> 00:06:12,319

might last through the mission how do

139

00:06:15,990 --> 00:06:14,160

you feel about the mission at this point

140

00:06:18,710 --> 00:06:16,000

any chance you might not stay on mirror

141

00:06:21,110 --> 00:06:18,720

for any reason

142

00:06:23,189 --> 00:06:21,120

uh no i'm here to stay uh

143

00:06:25,029 --> 00:06:23,199

no the suit problem was really i mean i

144

00:06:27,749 --> 00:06:25,039

couldn't get it on i tried with uh

145

00:06:29,830 --> 00:06:27,759

anatomy the commander here several times

146

00:06:32,070 --> 00:06:29,840

to get it on and it was just impossible

147

00:06:34,950 --> 00:06:32,080

until we uh made the adjustments and

148

00:06:37,909 --> 00:06:34,960

then it went on fine uh now i'm prepared

149

00:06:39,830 --> 00:06:37,919

to uh undertake this mission now and uh

150

00:06:42,550 --> 00:06:39,840

i'm looking forward to setting up our a

151

00:06:44,309 --> 00:06:42,560

home in the parody module and uh

152

00:06:46,469 --> 00:06:44,319

getting some personal things out and

153

00:06:47,510 --> 00:06:46,479

making it livable and uh starting the

154

00:06:50,790 --> 00:06:47,520

adventure

155

00:06:53,350 --> 00:06:50,800

pass the mic over to dave wolf if you

156

00:06:55,830 --> 00:06:53,360

will dave you have given lots of advice

157

00:06:56,950 --> 00:06:55,840

to andy since he came to relieve you i

158

00:06:59,189 --> 00:06:56,960

am sure i

159

00:07:00,950 --> 00:06:59,199

heard you were giving him some more uh

160

00:07:03,189 --> 00:07:00,960

last minute training this morning you've

161

00:07:06,070 --> 00:07:03,199

said it is hard you have said that

162

00:07:08,070 --> 00:07:06,080

murphy's law plays a major role in in

163

00:07:11,990 --> 00:07:08,080

mere operation what other kinds of

164

00:07:15,909 --> 00:07:13,830

well andy and i are very busy working

165

00:07:17,749 --> 00:07:15,919

together there's a lot of equipment here

166

00:07:19,189 --> 00:07:17,759

to learn how to work

167

00:07:21,510 --> 00:07:19,199

we've had training on the ground but of

168

00:07:23,110 --> 00:07:21,520

course it's a little different in actual

169

00:07:24,629 --> 00:07:23,120

use

170

00:07:26,629 --> 00:07:24,639

but there's a lot of hints on how to

171

00:07:29,270 --> 00:07:26,639

live and how to be efficient and how to

172

00:07:31,670 --> 00:07:29,280

keep track of your items and in fact how

173

00:07:32,710 --> 00:07:31,680

to keep out of each other's way and help

174

00:07:34,870 --> 00:07:32,720

each other

175

00:07:37,270 --> 00:07:34,880

and i've learned a lot about how these

176

00:07:40,550 --> 00:07:37,280

cosmonauts like to live and i'm trying

177

00:07:42,950 --> 00:07:40,560

to pass that knowledge on to handy

178

00:07:46,710 --> 00:07:42,960

yeah dave you said the other day you can

179

00:07:48,309 --> 00:07:46,720

feel really good in space and uh

180

00:07:50,550 --> 00:07:48,319

another interviewer didn't really follow

181

00:07:52,950 --> 00:07:50,560

up on that i am i'm fascinated by uh

182

00:07:54,710 --> 00:07:52,960

what you mean by really good in space

183

00:07:56,710 --> 00:07:54,720

tell me more about that feeling is it

184

00:07:59,110 --> 00:07:56,720

can you feel better in space than you

185

00:08:00,790 --> 00:07:59,120

feel on earth or is it better on mirror

186

00:08:05,670 --> 00:08:00,800

than it is on the shuttle uh what is

187

00:08:10,390 --> 00:08:08,469

well john it's really good and in fact i

188

00:08:12,869 --> 00:08:10,400

feel better today than when than when we

189

00:08:14,950 --> 00:08:12,879

last talked it has to do with your

190

00:08:17,430 --> 00:08:14,960

mental perception of three dimensions

191

00:08:21,189 --> 00:08:17,440

and your ability to move around

192

00:08:23,029 --> 00:08:21,199

and your efficiency in motion

193

00:08:25,029 --> 00:08:23,039

if you're a scuba diver or your first

194

00:08:26,869 --> 00:08:25,039

few dives you may not be as comfortable

195

00:08:28,070 --> 00:08:26,879

and you know how you can get your job

196

00:08:30,150 --> 00:08:28,080

done much

197

00:08:32,550 --> 00:08:30,160

when you get more experienced and it

198

00:08:35,029 --> 00:08:32,560

just keeps getting better and better and

199

00:08:36,949 --> 00:08:35,039

and i still haven't peeked out and it's

200

00:08:39,029 --> 00:08:36,959

it's really good

201
00:08:40,389 --> 00:08:39,039
that's great dave hand the mic to your

202
00:08:43,350 --> 00:08:40,399
mirror commander

203
00:08:45,910 --> 00:08:43,360
anatoly siloviov if you will commander

204
00:08:48,230 --> 00:08:45,920
we watched dave walt on his space walk

205
00:08:50,550 --> 00:08:48,240
with you a couple of weeks ago during

206
00:08:52,949 --> 00:08:50,560
that walk it seemed that you were

207
00:08:54,790 --> 00:08:52,959
critiquing his every action telling him

208
00:08:57,350 --> 00:08:54,800
not to touch anything and not to move

209
00:08:59,430 --> 00:08:57,360
his feet what was your main concern

210
00:09:03,030 --> 00:08:59,440
during the space walk with wolf and and

211
00:09:03,040 --> 00:09:32,949
it

212
00:09:39,030 --> 00:09:36,150
basically done by performed by dave i

213
00:09:42,070 --> 00:09:39,040

helped him sometimes when he asked me to

214

00:09:44,949 --> 00:09:42,080

so our functions

215

00:09:48,310 --> 00:09:44,959

of course were

216

00:09:49,910 --> 00:09:48,320

outstanding the experiment was performed

217

00:09:51,509 --> 00:09:49,920

very well and when we were moving along

218

00:09:53,750 --> 00:09:51,519

the station i

219

00:09:56,230 --> 00:09:53,760

was giving dave some hints because this

220

00:09:57,509 --> 00:09:56,240

is uh very naturally his first time in

221

00:09:59,910 --> 00:09:57,519

open space

222

00:10:02,230 --> 00:09:59,920

and we have a lot of uh

223

00:10:04,630 --> 00:10:02,240

equipment particularly in the area that

224

00:10:05,910 --> 00:10:04,640

we are for example there are star

225

00:10:07,990 --> 00:10:05,920

trackers

226

00:10:09,990 --> 00:10:08,000

and other equipment so i was uh

227

00:10:13,350 --> 00:10:10,000

explaining to him the best way of

228

00:10:16,790 --> 00:10:13,360

avoiding uh the equipment and i recall

229

00:10:18,949 --> 00:10:16,800

the first time i went out into space

230

00:10:20,470 --> 00:10:18,959

first eva i did i was given the same

231

00:10:22,150 --> 00:10:20,480

advice

232

00:10:24,069 --> 00:10:22,160

thanks commander we like the new haircut

233

00:10:26,470 --> 00:10:24,079

by the way for bonnie dunbar you've been

234

00:10:28,230 --> 00:10:26,480

conducting environmental experiments

235

00:10:30,150 --> 00:10:28,240

back in the space have all week what

236

00:10:32,550 --> 00:10:30,160

should we know about these projects so

237

00:10:34,310 --> 00:10:32,560

far and uh one final question for you

238

00:10:36,550 --> 00:10:34,320

you've been demir before and said before

239

00:10:38,389 --> 00:10:36,560

launch you didn't expect to see much

240

00:10:42,389 --> 00:10:38,399

different is it much different than your

241

00:10:46,710 --> 00:10:44,949

well to answer your last question uh

242

00:10:49,269 --> 00:10:46,720

it's nice to be back it's a lot more

243

00:10:52,389 --> 00:10:49,279

familiar than it was in 1995 and of

244

00:10:54,230 --> 00:10:52,399

course anatoly was my commander at star

245

00:10:55,829 --> 00:10:54,240

city we trained together for a year so

246

00:10:56,870 --> 00:10:55,839

it was nice to come back and see him

247

00:10:58,870 --> 00:10:56,880

again

248

00:11:00,949 --> 00:10:58,880

uh the experiments that i'm working back

249

00:11:03,990 --> 00:11:00,959

on in a space hub are

250

00:11:06,150 --> 00:11:04,000

basically technology experiments for

251
00:11:09,190 --> 00:11:06,160
life support for future space stations

252
00:11:11,590 --> 00:11:09,200
and vehicles one of them the vra

253
00:11:15,269 --> 00:11:11,600
was designed to help

254
00:11:17,430 --> 00:11:15,279
purify water the other one the voa for

255
00:11:18,230 --> 00:11:17,440
detecting uh different compounds in the

256
00:11:20,389 --> 00:11:18,240
air

257
00:11:22,150 --> 00:11:20,399
and like in all technologies though you

258
00:11:24,389 --> 00:11:22,160
have to test them sometime in their real

259
00:11:25,670 --> 00:11:24,399
environment these devices were designed

260
00:11:27,590 --> 00:11:25,680
on the ground to operate in a

261
00:11:29,030 --> 00:11:27,600
microgravity environment and as you know

262
00:11:31,430 --> 00:11:29,040
we don't have any

263
00:11:33,030 --> 00:11:31,440

weightless rooms on the earth so you

264

00:11:34,630 --> 00:11:33,040

have to bring them to space to test them

265

00:11:37,829 --> 00:11:34,640

and right now we're testing them i think

266

00:11:39,430 --> 00:11:37,839

dra unfortunately experienced a shutdown

267

00:11:41,350 --> 00:11:39,440

of one of its regulators but we're

268

00:11:43,110 --> 00:11:41,360

working on voa and we hope to bring it

269

00:11:45,030 --> 00:11:43,120

back up today and we'll gain a lot of

270

00:11:46,470 --> 00:11:45,040

valuable information on it that'll feed

271

00:11:48,150 --> 00:11:46,480

into the future

272

00:11:49,509 --> 00:11:48,160

all right we're all out of time for

273

00:11:51,190 --> 00:11:49,519

those of you we didn't get to talk to

274

00:11:53,110 --> 00:11:51,200

i'm sorry about that but uh we'll look

275

00:11:54,790 --> 00:11:53,120

forward to seeing many of you back on

276
00:11:56,870 --> 00:11:54,800
earth soon and andy thomas we'll talk to

277
00:11:58,470 --> 00:11:56,880
you in space again hopefully in the next

278
00:11:59,910 --> 00:11:58,480
few weeks to see how you're settling in

279
00:12:39,190 --> 00:11:59,920
it's good to see all of you you look

280
00:12:42,870 --> 00:12:41,030
this is mission control houston and this

281
00:12:45,190 --> 00:12:42,880
view once again of the double space app

282
00:12:47,430 --> 00:12:45,200
module in endeavors payload bay in the

283
00:12:49,670 --> 00:12:47,440
aft section of the space hub module is

284
00:12:51,430 --> 00:12:49,680
mission specialist bonnie dunbar and in

285
00:12:53,829 --> 00:12:51,440
the foreground mission specialist jim

286
00:12:56,310 --> 00:12:53,839
reilly and with his back to the camera

287
00:13:02,389 --> 00:12:56,320
dave wolf who has just completed his 119

288
00:13:05,590 --> 00:13:03,990

the astronauts have just completed

289

00:13:07,670 --> 00:13:05,600

stowing away one of the experiments that

290

00:13:09,190 --> 00:13:07,680

was conducted during wolf's tenure on

291

00:13:10,550 --> 00:13:09,200

the mir space station for its return

292

00:13:12,470 --> 00:13:10,560

trip back to earth and have been

293

00:13:14,069 --> 00:13:12,480

conversing over the past several minutes

294

00:13:16,629 --> 00:13:14,079

with the scientific community here in

295

00:13:19,190 --> 00:13:16,639

houston to ensure that the stowage was

296

00:13:20,629 --> 00:13:19,200

accomplished properly

297

00:13:22,389 --> 00:13:20,639

and to provide the status of that